

RAW SEQUENCE LISTING

DATE: 01/03/2002

PATENT APPLICATION: US/10/017,393

TIME: 13:39:45

Input Set : A:\16U 103 R1.ST25.txt

Output Set: N:\CRF3\01032002\J017393.raw

ENTERED

3 <110> APPLICANT: OriGene Technologies, Inc
 5 <120> TITLE OF INVENTION: HISTAMINE H2 RECEPTOR AND USES
 7 <130> FILE REFERENCE: 16U 103 R1
 9 <140> CURRENT APPLICATION NUMBER: US/10/017,393
 9 <141> CURRENT FILING DATE: 2001-12-18
 9 <160> NUMBER OF SEQ ID NOS: 2
 11 <170> SOFTWARE: PatentIn version 3.1
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 4175
 15 <212> TYPE: DNA
 16 <213> ORGANISM: Homo sapiens
 18 <220> FEATURE:
 19 <221> NAME/KEY: CDS
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 21 <223> OTHER INFORMATION:
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 28 Met Ala Pro Asn
 29 1
 31 ggc aca gcc tct tcc ttt tgc ctg gac tct acc gca tgc aag atc acc 162
 32 Gly Thr Ala Ser Ser Phe Cys Leu Asp Ser Thr Ala Cys Lys Ile Thr
 33 5 10 15 20
 35 atc acc gtg gtc ctt gcg gtc ctc atc ctc atc acc gtt gct ggc aat 210
 36 Ile Thr Val Val Leu Ala Val Leu Ile Leu Ile Thr Val Ala Gly Asn
 37 25 30 35
 39 gtg gtc gtc tgt ctg gcc gtg ggc ttg aac cgc cgg ctc cgc aac ctg 258
 40 Val Val Val Cys Leu Ala Val Gly Leu Asn Arg Arg Leu Arg Asn Leu
 41 40 45 50
 43 acc aat tgt ttc atc gtg tcc ttg gct atc act gac ctg ctc ctc ggc 306
 44 Thr Asn Cys Phe Ile Val Ser Leu Ala Ile Thr Asp Leu Leu Leu Gly
 45 55 60 65
 47 ctc ctg gtg ctg ccc ttc tct gcc atc tac cag ctg tcc tgc aag tgg 354
 48 Leu Leu Val Leu Pro Phe Ser Ala Ile Tyr Gln Leu Ser Cys Lys Trp
 49 70 75 80
 51 agc ttt ggc aag gtc ttc tgc aat atc tac acc agc ctg gat gtg atg 402
 52 Ser Phe Gly Lys Val Phe Cys Asn Ile Tyr Thr Ser Leu Asp Val Met
 53 85 90 95 100
 55 ctc tgc aca gcc tcc att ctt aac ctc ttc atg atc agc ctc gac cgg 450
 56 Leu Cys Thr Ala Ser Ile Leu Asn Leu Phe Met Ile Ser Leu Asp Arg
 57 105 110 115
 59 tac tgc gct gtc atg gac cca ctg cgg tac cct gtg ctg gtc acc cca 498
 60 Tyr Cys Ala Val Met Asp Pro Leu Arg Tyr Pro Val Leu Val Thr Pro
 61 120 125 130
 63 gtt cgg gtc gcc atc tct ctg gtc tta att tgg gtc atc tcc att acc 546
 64 Val Arg Val Ala Ile Ser Leu Val Leu Ile Trp Val Ile Ser Ile Thr
 65 135 140 145

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67 ctg tcc ttt ctg tct atc cac ctg ggg tgg aac agc agg aac gag acc 594
68 Leu Ser Phe Leu Ser Ile His Leu Gly Trp Asn Ser Arg Asn Glu Thr
69 150 155 160
71 agc aag ggc aat cat acc acc tct aag tgc aaa gtc cag gtc aat gaa 642
72 Ser Lys Gly Asn His Thr Thr Ser Lys Cys Lys Val Gln Val Asn Glu
73 165 170 175 180
75 gtg tac ggg ctg gtg gat ggg ctg gtc acc ttc tac ctc ccg cta ctg 690
76 Val Tyr Gly Leu Val Asp Gly Leu Val Thr Phe Tyr Leu Pro Leu Leu
77 185 190 195
79 atc atg tgc atc acc tac tac cgc atc ttc aag gtc gcc cgg gat cag 738
80 Ile Met Cys Ile Thr Tyr Tyr Arg Ile Phe Lys Val Ala Arg Asp Gln
81 200 205 210
83 gcc aag agg atc aat cac att agc tcc tgg aag gca gcc acc atc agg 786
84 Ala Lys Arg Ile Asn His Ile Ser Ser Trp Lys Ala Ala Thr Ile Arg
85 215 220 225
87 gag cac aaa gcc aca gtg aca ctg gcc gcc gtc atg ggg gcc ttc atc 834
88 Glu His Lys Ala Thr Val Thr Leu Ala Ala Val Met Gly Ala Phe Ile
89 230 235 240
91 atc tgc tgg ttt ccc tac ttc acc gcg ttt gtg tac cgt ggg ctg aga 882
92 Ile Cys Trp Phe Pro Tyr Phe Thr Ala Phe Val Tyr Arg Gly Leu Arg
93 245 250 255 260
95 ggg gat gat gcc atc aat gag gtg tta gaa gcc atc gtt ctg tgg ctg 930
96 Gly Asp Asp Ala Ile Asn Glu Val Leu Glu Ala Ile Val Leu Trp Leu
97 265 270 275
99 gcc tat gcc aac tca gcc ctg aac ccc atc ctg tat gct gcg ctg aac 978
100 Gly Tyr Ala Asn Ser Ala Leu Asn Pro Ile Leu Tyr Ala Ala Leu Asn
101 280 285 290
103 aga gac ttc cgc acc ggg tac caa cag ctc ttc tgc tgc agg ctg gcc 1026
104 Arg Asp Phe Arg Thr Gly Tyr Gln Gln Leu Phe Cys Cys Arg Leu Ala
105 295 300 305
107 aac cgc aac tcc cac aaa act tct ctg agg tcc aac gcc tct cag ctg 1074
108 Asn Arg Asn Ser His Lys Thr Ser Leu Arg Ser Asn Ala Ser Gln Leu
109 310 315 320
111 tcc agg acc caa agc cga gaa ccc agg caa cag gaa gag aaa ccc ctg 1122
112 Ser Arg Thr Gln Ser Arg Glu Pro Arg Gln Gln Glu Lys Pro Leu
113 325 330 335 340
115 aag ctc cag gtg tgg agt ggg aca gaa gtc acg gcc ccc cag gga gcc 1170
116 Lys Leu Gln Val Trp Ser Gly Thr Glu Val Thr Ala Pro Gln Gly Ala
117 345 350 355
119 aca gac agg aag cca gca ctg tcc tgc act acg tgc tcc agc aac ctc 1218
120 Thr Asp Arg Lys Pro Ala Leu Ser Cys Thr Thr Cys Ser Ser Asn Leu
121 360 365 370
123 ctg agc tgc tgc aag agc ctg tgg ggg ctc agg ttc ctt cag aga cac 1266
124 Leu Ser Cys Cys Lys Ser Leu Trp Gly Leu Arg Phe Leu Gln Arg His
125 375 380 385
127 atg gga ggc ccc tcg gag gag cta tcg ggg gag cca ctg tct gag gag 1314
128 Met Gly Gly Pro Ser Glu Glu Leu Ser Gly Glu Pro Leu Ser Glu Glu
129 390 395 400
131 cca cag aag aga cct ccc cag aaa gcg gtg agg acg ctg ccc tct gag 1362

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135	gct	gtc	tag	acctagcccc	aggcaactga	agataaccgct	cccgggtcccc										1411
136	Ala	Val															
139	aagatgtgac	tcctggagct	cctaaggacc	cagtctccaa	agccaccaag	gactcaccct											1471
141	ggactgaatc	tgggggtctc	cagaacacac	agctgggtgt	ggggtcctca	ggcctagggc											1531
143	ggaacagcct	attctgtgct	cagcattccc	agacaggcac	gcaagactcc	tctgggcccc											1591
145	agtgggctga	atcccatggg	ttcaaaagctc	acgttggtgc	tggccctggg	agtcattgagc											1651
147	agagacggtg	ggacagacgg	ggatgcgtgc	acatgtgtgt	gcatgggtgc	atacgtgtag											1711
149	ggacgtgcat	gacctctgag	caaggcagag	ggtattgaag	aaagcattgg	cctctcactc											1771
151	cctcatgggt	tctgcaggat	gaaggaaaag	aaaggaaaag	acagagaaaag	gaaggaaaata											1831
153	gcttttcatg	agcacctact	gtgtaccagg	tgtctccctg	gcatgagctc	tcgtaaccct											1891
155	tatagcaaca	tgagtttaga	gcaagaatca	caccccgact	ttacagagat	ggaaactgag											1951
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159	ataggaggca	cacaaaaata	tgtgttgaat	gggtgaatga	atgagagaac	gggtgaaaag											2071
161	ccaggcctca	agcccacact	actgacactg	cactacacca	cctctcagga	gagaaggcaa											2131
163	atatttccct	gactcagcca	ccttcctcct	agcaaggctt	agacccccag	gctctggggg											2191
165	tccttccctg	ctacagtatg	accctctctg	gtgcttgctc	tcaagaagt	gtatgcgggtg											2251
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171	tgggcaagtc	tcctgaccac	tctaagcagc	ttttgattcc	cctgtccaag	agggtaggcc											2431
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234 <210> SEQ ID NO: 2
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236 <212> TYPE: PRT
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246 20 25 30
249 Val Ala Gly Asn Val Val Val Cys Leu Ala Val Gly Leu Asn Arg Arg
250 35 40 45
253 Leu Arg Asn Leu Thr Asn Cys Phe Ile Val Ser Leu Ala Ile Thr Asp
254 50 55 60
257 Leu Leu Leu Gly Leu Leu Val Leu Pro Phe Ser Ala Ile Tyr Gln Leu
258 65 70 75 80
261 Ser Cys Lys Trp Ser Phe Gly Lys Val Phe Cys Asn Ile Tyr Thr Ser
262 85 90 95
265 Leu Asp Val Met Leu Cys Thr Ala Ser Ile Leu Asn Leu Phe Met Ile
266 100 105 110
269 Ser Leu Asp Arg Tyr Cys Ala Val Met Asp Pro Leu Arg Tyr Pro Val
270 115 120 125
273 Leu Val Thr Pro Val Arg Val Ala Ile Ser Leu Val Leu Ile Trp Val
274 130 135 140
277 Ile Ser Ile Thr Leu Ser Phe Leu Ser Ile His Leu Gly Trp Asn Ser
278 145 150 155 160
281 Arg Asn Glu Thr Ser Lys Gly Asn His Thr Thr Ser Lys Cys Lys Val
282 165 170 175
285 Gln Val Asn Glu Val Tyr Gly Leu Val Asp Gly Leu Val Thr Phe Tyr
286 180 185 190
289 Leu Pro Leu Leu Ile Met Cys Ile Thr Tyr Tyr Arg Ile Phe Lys Val
290 195 200 205
293 Ala Arg Asp Gln Ala Lys Arg Ile Asn His Ile Ser Ser Trp Lys Ala
294 210 215 220
297 Ala Thr Ile Arg Glu His Lys Ala Thr Val Thr Leu Ala Ala Val Met
298 225 230 235 240
301 Gly Ala Phe Ile Ile Cys Trp Phe Pro Tyr Phe Thr Ala Phe Val Tyr
302 245 250 255
305 Arg Gly Leu Arg Gly Asp Asp Ala Ile Asn Glu Val Leu Glu Ala Ile
306 260 265 270
309 Val Leu Trp Leu Gly Tyr Ala Asn Ser Ala Leu Asn Pro Ile Leu Tyr
310 275 280 285
313 Ala Ala Leu Asn Arg Asp Phe Arg Thr Gly Tyr Gln Gln Leu Phe Cys
314 290 295 300
317 Cys Arg Leu Ala Asn Arg Asn Ser His Lys Thr Ser Leu Arg Ser Asn
318 305 310 315 320
321 Ala Ser Gln Leu Ser Arg Thr Gln Ser Arg Glu Pro Arg Gln Gln Glu
322 325 330 335

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330           355           360           365
333 Ser Ser Asn Leu Leu Ser Cys Cys Lys Ser Leu Trp Gly Leu Arg Phe
334           370           375           380
337 Leu Gln Arg His Met Gly Gly Pro Ser Glu Glu Leu Ser Gly Glu Pro
338 385           390           395           400
341 Leu Ser Glu Glu Pro Gln Lys Arg Pro Pro Gln Lys Ala Val Arg Thr
342           405           410           415
345 Leu Pro Ser Glu Ala Val
346           420

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/017,393

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Input Set : A:\16U 103 R1.ST25.txt

Output Set: N:\CRF3\01032002\J017393.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date